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Title :

Olefin polymerisation catalyst for production of e.g. rubber(s) - comprises novel transition metal comp compound including organo-metallic and organo-aluminium components and/or compound forming io

Derwent Classes :

A12 A17 E11 E12

Patent Assignee :

(MITA) MITSUI CHEM INC

Inventor(s) :

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Nbr of Patents :

9

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EP-874005 A1 19981028 DW1998-47 C08F-010/00 Eng 164 *
AP: 1998EP-0107497 19980424
DSR: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI

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AP: 1998CA-2235905 19980424

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FD: Div ex US6309997
AP: 1998US-0065593 19980424; 2001US-0942636 20010831

US20020115557 A1 20020822 DW2002-58 B01J-031/00
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023/20 B01J-023/24 B01J-023/32 C07F-007/00 C07F-007/08 C07F-009/00 C07F-019/00 C08F-004/5
C08F-004/655 C08F-004/68 C08F-004/70 C08F-136/00 C08F-210/12 C08F-236/00

Abstract :

EP-874005 A

An olefin polymerisation catalyst comprises: (a) a transition metal (TM) compound of formula (I); and comprising (i) an organometallic compound; (ii) an organoaluminium compound; and/or (iii) a compou TM compound (a) to form an ion pair.

(where: M = a group III-XI TM; m = 1-6; R1-6 each = H, halogen, hydrocarbon, heterocyclic residue, Si-, Ge-, or Sn-containing group, two or more of which may be bonded together to form a ring.

M = 2 or more; two of groups R1-6 may be bonded together; two groups R1 are not bonded together; X hydrocarbon, O-containing group, S-containing group, N-containing group, B-containing group, Al-co containing group, halogen-containing group, heterocyclic compound residue, Si-containing group, Ge- or Sn-containing group; when n = at least 2, several X may be bonded together.

Also claimed are: (A) a process for olefin polymerisation comprising (co)polymerising an olefin in the claimed catalyst;

(B) the TM compound of formula (I); and

(C) an alpha -olefin / conjugated diene copolymer having a molecular weight distribution of at most 3.. alpha -olefin, 99-0.1 mol.%. conjugated diene, and 0-1 mol.%. 1,2-cyclopentane skeleton derived from

USE - Copolymers produced by the process from the claimed catalyst are used as rubbers.

ADVANTAGE - Catalysts have excellent polymerisation activities, and their components are inexpens reactive. (Dwg.3/4)

Manual Codes :

CPI: A02-A06 A04-G01A E05-B E05-C02 E05-E E05-F E05-G E05-L01 E05-L02A E05-L02B E05-I N

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